

FIG. 6

PARTIAL DNA SEQUENCE FOR THE PLASMID FOR INSERTION INTO YEAST
IN WHICH: NUCLEOTIDE NOS. 1-173 MAKEUP THE MF 1 PROMOTER
REGION AND 5' NONCODING SEQUENCE. 174-440 IS THE MF 1 N-TERMINAL
CODING SEQUENCE. 441-695 IS AN HPTH SEQUENCE. 696-726 IS AN
HPTH 3' NONCODING SEQUENCE FROM pSSHPTH-10. 727-732 IF FROM
pUC19. 733-874 IS MF 1 3' NONCODING SEQUENCE AND TRANSCRIPTIONAL
TERMINATION SIGNAL

10	30	
AGTGCAAGAAAACCAAAAGCAACAACAGGTTTGGATAAGTACATATATAAGAGGGCT		
70	90	110
TTTGTCCCATCAAAATGTTACTGTTCTACGATTACATTACGATTCAAGAATAGTTCA		
130	150	170
AACAAGAACATTACAAACTATCAATTCATACACAATATAAACGACCAAAAGAACATGAGAT		
190	210	230
TTCCTTCATTTTACTGCAGTTTATTGCAGCATCCTCCGCATTAGCTGCTCCAGTCA		
250	270	290
ACACTACAAACAGAACAGATGAAACGGCACAAATTCCGGCTGAAGCTGTATCGGTTACTCAG		
310	330	350
ATTTAGAAGGGGATTCGATGTTGCTGTTGCCATTCCAACAGCACAAATAACGGGT		
370	390	410
TATTGTTATAAATACTACTATTGCCAGCATTGCTGCTAAAGAACAGAAGGGGTATCTTGG		
430	450	470
ATAAAAGAGAGGCTGAAGCTWSNGTNWSNGARATHCARYTNATGCAYAAYYTNGGNAARC		
490	510	530
AYYTNAAYWSNATGGARMGNNTNGARTGGYTNMGNAARAARYNCARGAYGTNCAYAAYT		
550	570	590
TYGTNGCNYTNGGNGCNCCNYTNGCNCCNMNGNGAYGCNGGNWSNCARMGNCCNMGNAARA		
610	630	650
ARGARGAYAAYGTYNTNGTNGARWSNCAYGARAARWSNYTNGGNGARGCNGAYAARGCNG		
670	690	710
AYGTAAYGTYTNACNAARGCNAARWSNCARTRRAATGAAAACAGATATTGTCAGAGT		
730	750	770
TCTGCTCTAGAGTCGACTTGTCCCACGTACTTTAGCTCGTACAAATACAATATAC		
790	810	830
TTTCATTCTCGTAAACAACCTGTTCCCATGTAATATCCTTTCTATTTCGTT		
850	870	
CGTTACCAACTTACACATACTTATATAGCTAT, WHEREIN		

M = A OR C

R = A OR G

W = A OR T

S = C OR G

Y = C OR T

H = A OR C OR T

N = A OR G OR C OR T

FIG. 7

NUCLEOTIDE SEQUENCE OF THE MF 1-HPTH FUSION GENE FROM pS LX5-HPTH1.
NUCLEOTIDE NOS. 1-173 MAKEUP THE MH 1 PROMOTER REGION AND 5'
NONCODING SEQUENCE. 174-440 IS THE MF 1 N-TERMINAL CODING
SEQUENCE. 441-695 IS THE HPTH SEQUENCE OBTAINED FROM pSSHPTH-10.
696-726 IS AN HPTH 3' NONCODING SEQUENCE FROM pSSHPTH-10. 727-732
IS FROM pUC19. 733-874 IS MF 1 3' NONCODING SEQUENCE AND
TRANSCRIPTIONAL TERMINATION SIGNAL

10	30	50
AGTGCAAGAAAACCAAAAGCAACAACAGGTTTGGATAAGTACATATATAAGAGGGCT		
70	90	110
TTTGTCCCATTCAAAATGTTACTGTTCTACGATTCAATTACGATTCAAGAATAGTTCA		
130	150	170
AACAAGAAGATTACAAACTATCAATTCTACACAATATAAACGACCAAAAGAATGAGAT		
190	210	230
TTCCTTCAATTTCAGTTGCAGCTTATTCCGAGCATCCTCCGATTAGCTGCTCCAGTCA		
250	270	290
ACACTACAAACAGAAGATGAAACGGCACAAATTCCGGCTGAAGCTGTACCGTTACTCAG		
310	330	350
ATTTAGAAGGGGATTCGATGTTGCTGTTGCCATTTCACAGCACAAATAACGGGT		
370	390	410
TATTGTTATAAACTACTATTGCCAGCATTGCTGCTAAAGAAGAAGGGGTATCTTG		
430	450	470
ATAAAAGAGAGGCTGAAGCTCTGTGAGTGAAATACAGCTTATGCATAACCTGGAAAC		
490	510	530
ATCTGAACTCGATGGAGAGAGTAGAATGGCTGCGTAAGAAGCTGCAGGATGTGACAATT		
550	570	590
TTGTTGCCCTGGAGCTCCTAGCTCCAGAGATGCTGGTCCAGAGGCCGGAAAAAA		
610	630	650
AGGAAGACAATGCTTGGTTGAGAGCCATGAAAAAAGTCTGGAGAGGCAGACAAAGCTG		
670	690	710
ATGTGAATGTATTAACCTAAAGCTAAATCCAGTGAAAATGAAAACAGATATTGTCAGAGT		
730	750	770
TCTGCTCTAGAGTCGACTTGTCCCAGTGTACTTTAGCTCGTACAAATACAATATAC		
790	810	830
TTTCATTCTCCGTAAACAAACCTGTTCCCATGTAATATCCTTCTATTTCGTT		
850	870	
CGTTACCAACTTACACATACTTATAGCTAT		

FIG. 10A

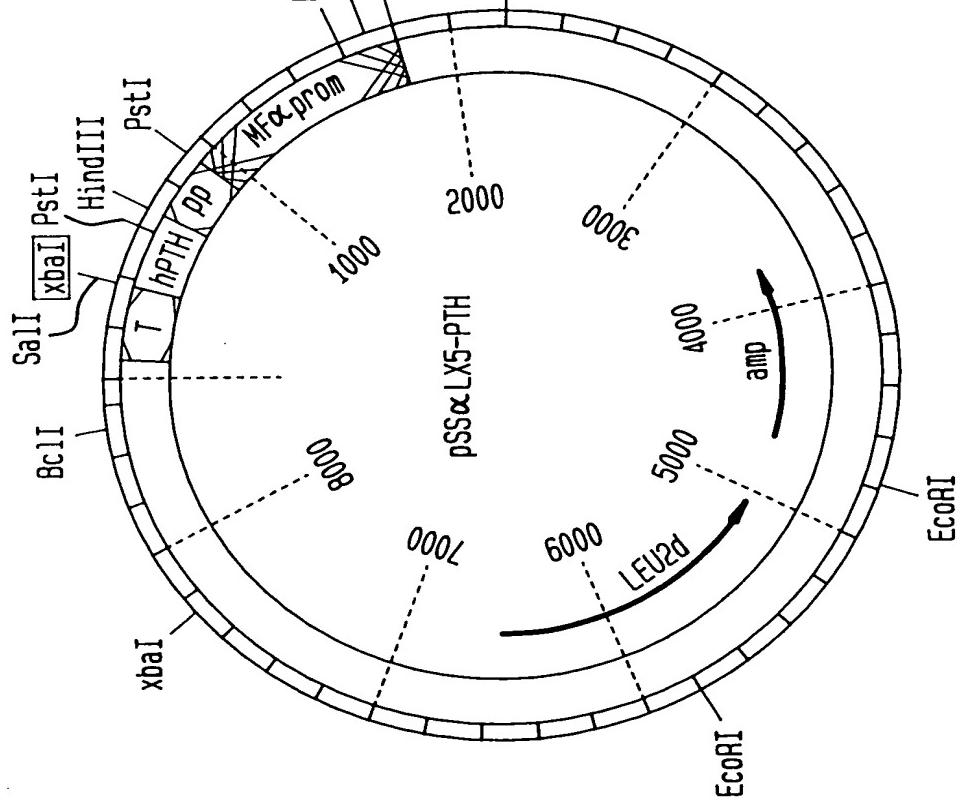
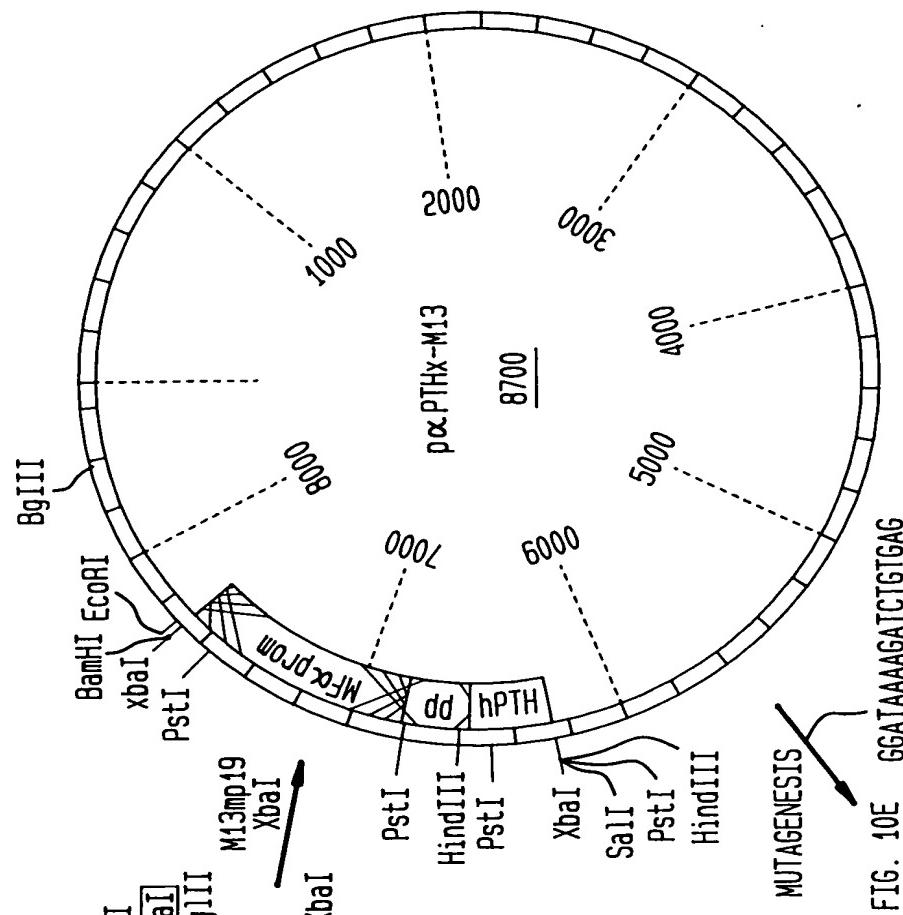


FIG. 10B



MUTAGENESIS

TO FIG. 10E GGATAAAAGATCTGTGAAG

FIG. 10C

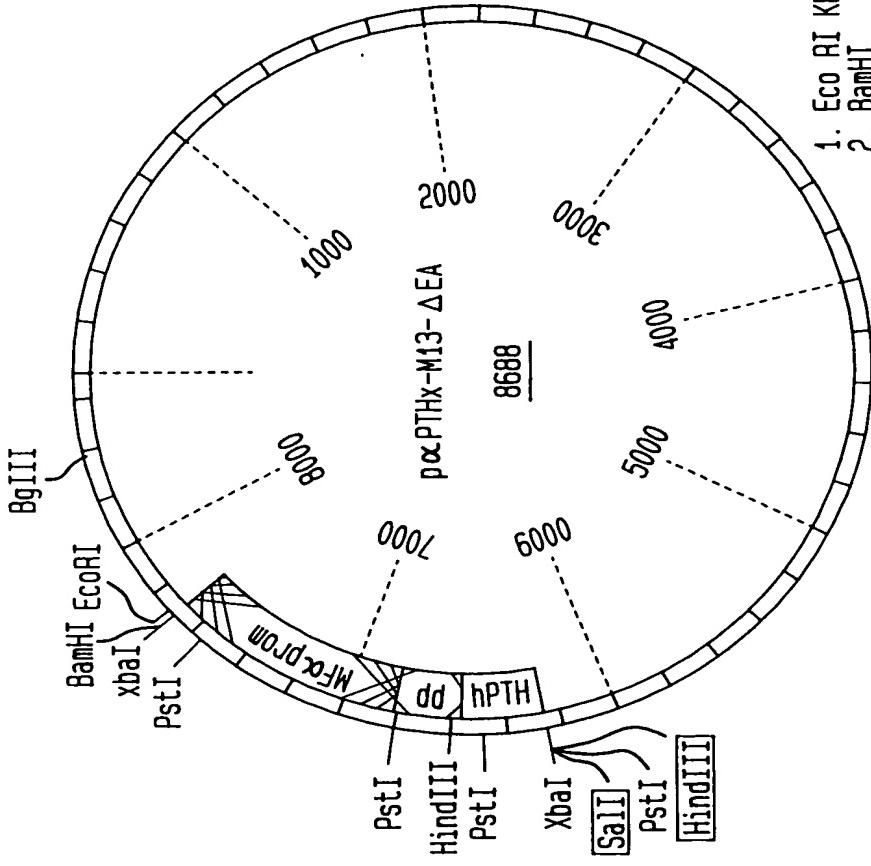
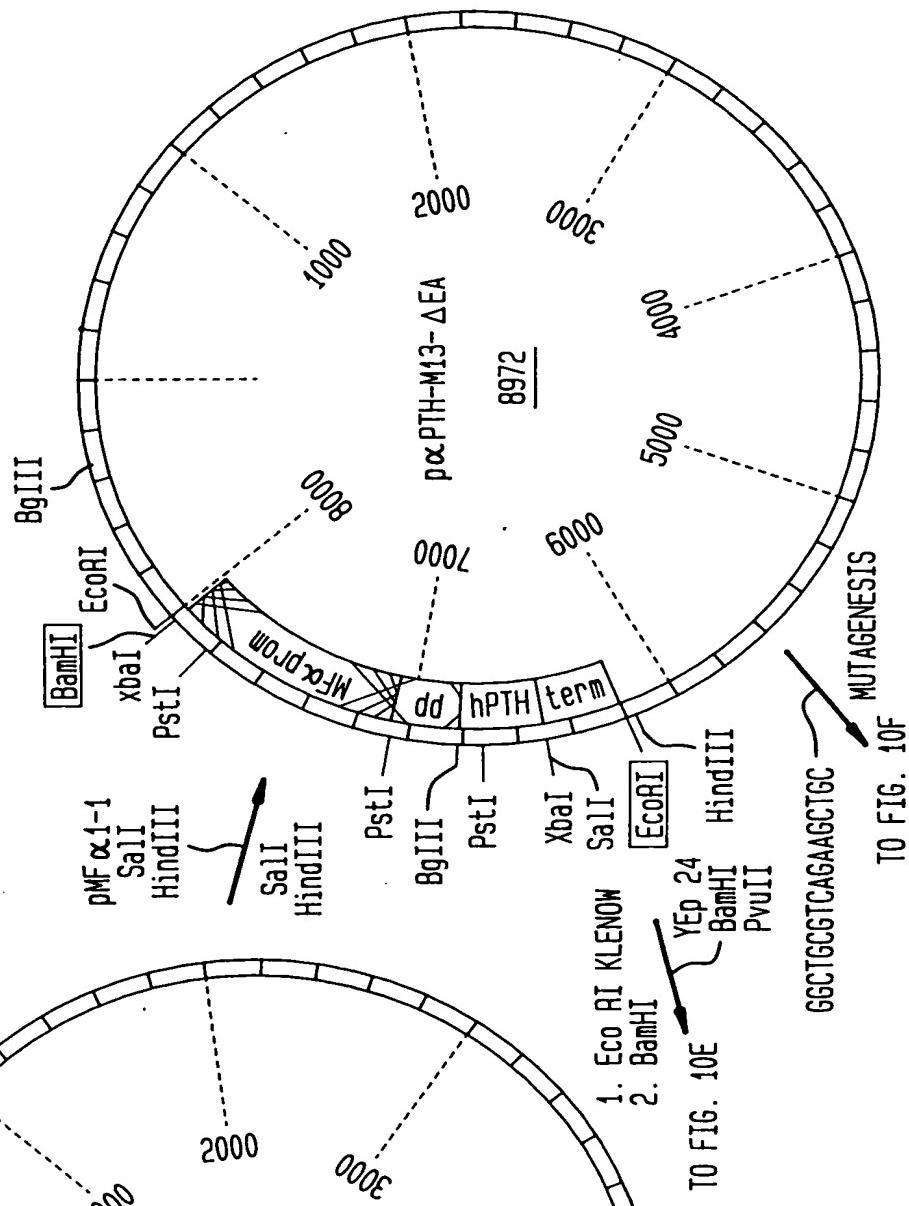


FIG. 10D



TO FIG. 10F

GGCTGGCTAGAGCTGC
MUTAGENESIS

FIG. 10E

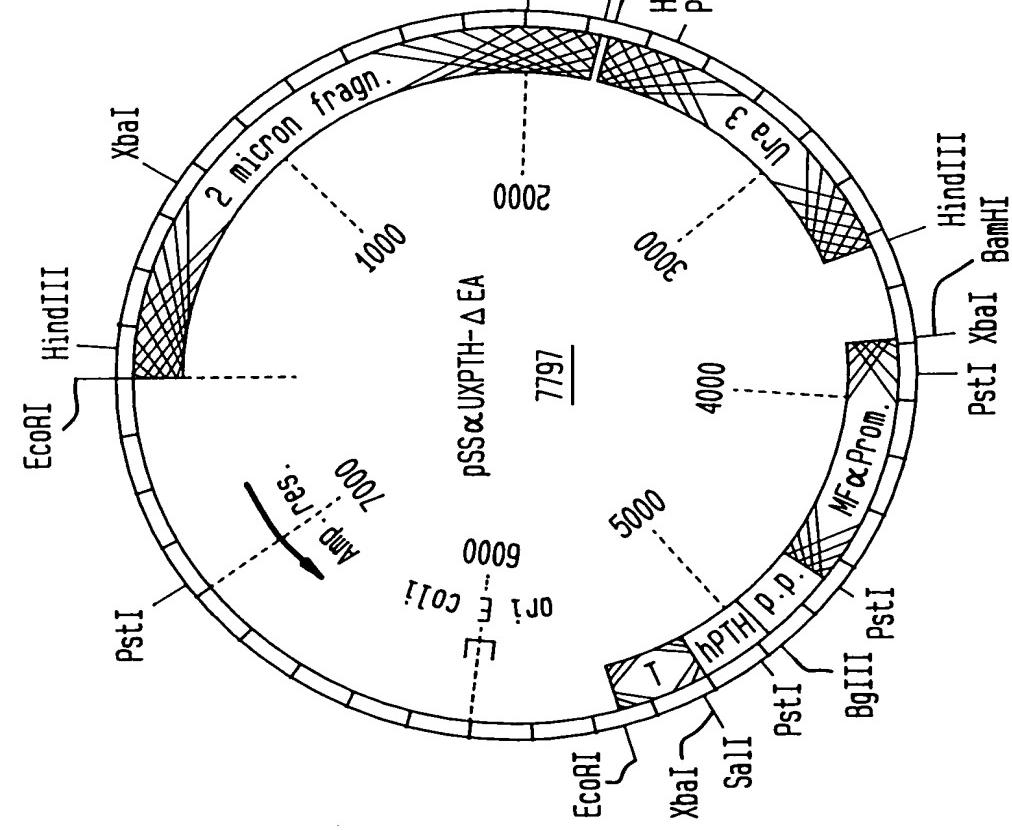


FIG. 10F

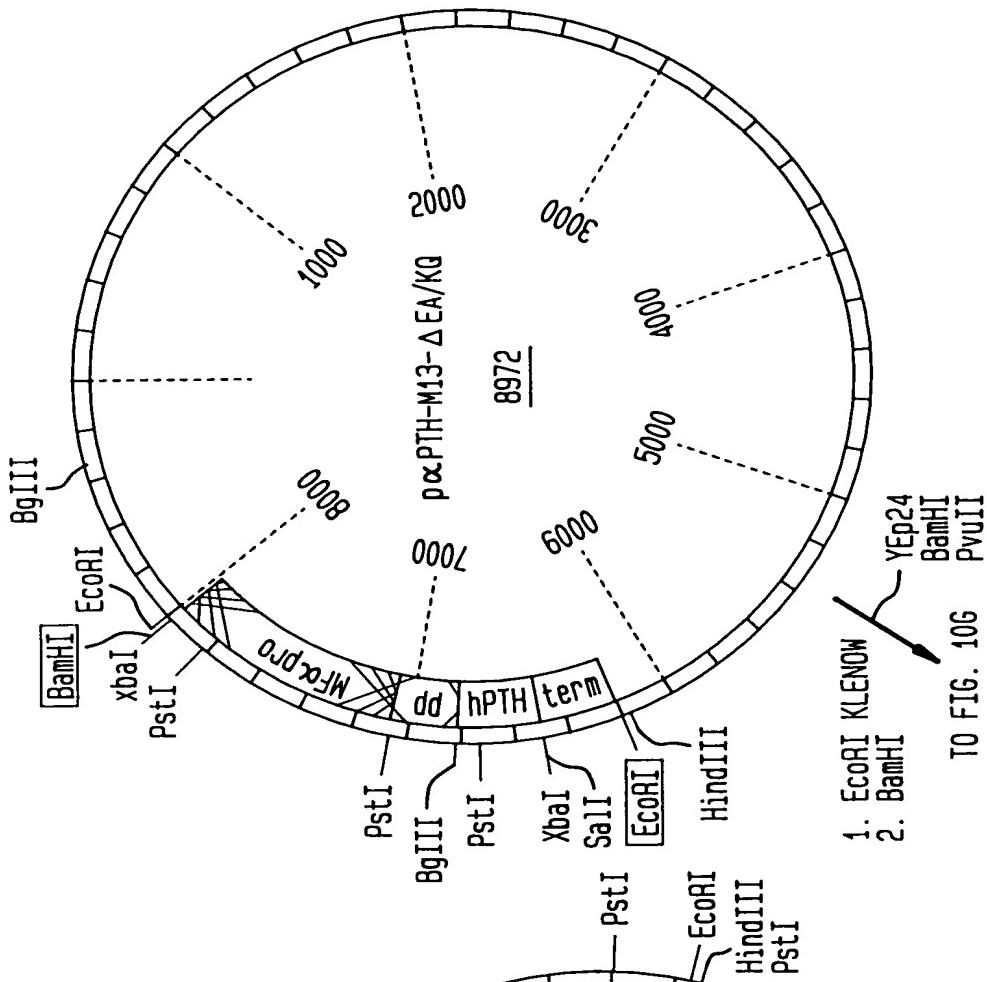


FIG. 106

